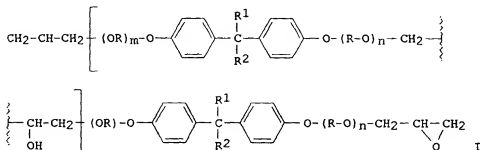


AN 1988:483592 CAPLUS
 DN 109:83592
 TI Sealed liquid crystal display device
 IN Matsuyama, Shigeru
 PA Hitachi, Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G02F001-133
 ICS G09F009-30
 ICA C09J003-16
 CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62295029	A2	19871222	JP 1986-138052	19860616



AB The title device is characterized by the use of a sealant from an epoxy resin contg. a novolak phenolic resin hardener and >10 wt.% flexible epoxy resin, fillers of Al₂O₃ and/or SiO₂ (< 0.05 .mu.m in av. particle diam.) <6 vol.%, and an imidazole compd. curing accelerator 1 wt.% based on the epoxy resin. Thus, a novolak-type epoxy resin was mixed with a flexible epoxy resin [e.g. I (R, R¹, R² = alkyl or OH)]. The shock resistance and the moisture resistance of a liq.-crystal display device sealed with the resin were improved.

ST liq crystal device epoxy resin; silica filler epoxy resin sealant; alumina filler epoxy resin sealant; imidazole epoxy resin sealant display; novolak epoxy resin sealant display

IT Epoxy resins, uses and miscellaneous
 RL: USES (Uses)
 (sealants from, for liq. crystal display devices)

IT Optical imaging devices
 (liq.-crystal, epoxy resin sealant compns. for)

IT 23996-25-0
 RL: USES (Uses)
 (epoxy resin compn. contg., for sealing of liq. crystal display devices)

IT 115566-67-1

JP 62-295029

409

RL: USES (Uses)
(epoxy resin compn. contg., for sealing of liq.-crystal display
devices)

IT 1344-28-1, uses and miscellaneous 7631-86-9, Silica, uses and
miscellaneous

RL: USES (Uses)
(fillers, in epoxy resin sealant compns. for liq.-crystal display
devices)

IT 11121-15-6, Adeka Resin EP 4000 25068-38-6, Epikote 1001

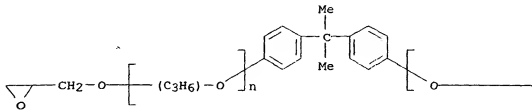
RL: USES (Uses)
(sealant from, for liq.-crystal display devices)

RN 11121-15-6 REGISTRY
 CN Poly[oxy(methyl-1,2-ethanediyl)],
 .alpha.,.alpha.'-[[1-methylethylidene)di-
 4,1-phenylene]bis[.omega.-(oxiranylmethoxy)-, homopolymer (9CI) (CA
 INDEX
 NAME)
 OTHER NAMES:
 CN Adeka EP 4000
 CN Adeka Resin EP 4000
 CN ADK 4000
 CN EP 4000
 CN Epiclon 717
 CN Gurishieru BPP 350
 CN Rikaresin BPO 20E
 DR 54667-37-7, 60267-15-4, 63278-42-2, 39354-76-2
 MF ((C3 H6 O)n (C3 H6 O)n C21 H24 O4)x
 CI PMS, COM
 PCT Epoxy resin, Polyether
 LC STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL

 CM 1

 CRN 55236-42-5
 CMF (C3 H6 O)n (C3 H6 O)n C21 H24 O4
 CCI IDS, PMS

PAGE 1-A



PAGE 1-B



93 REFERENCES IN FILE CA (1967 TO DATE)
 23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 93 REFERENCES IN FILE CAPLUS (1967 TO DATE)